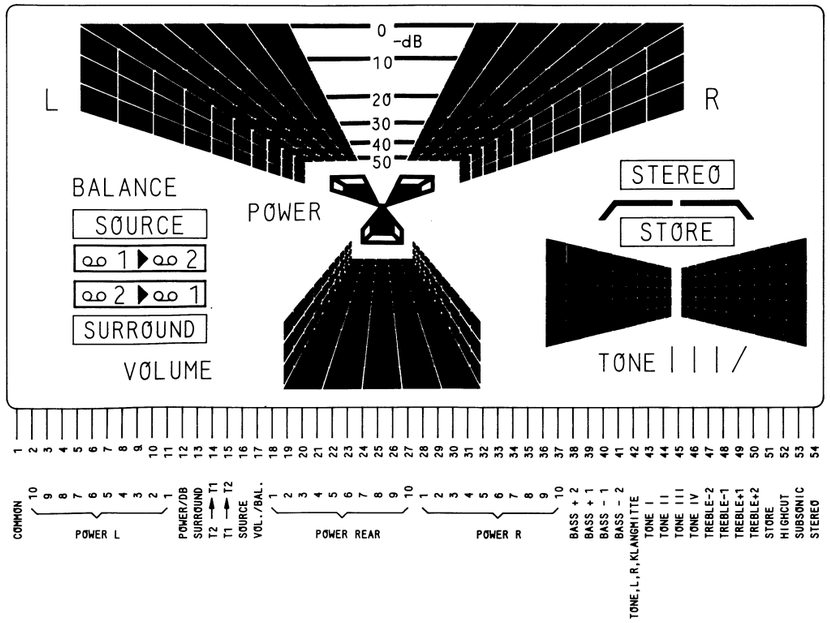
GRUNDIG V-8300

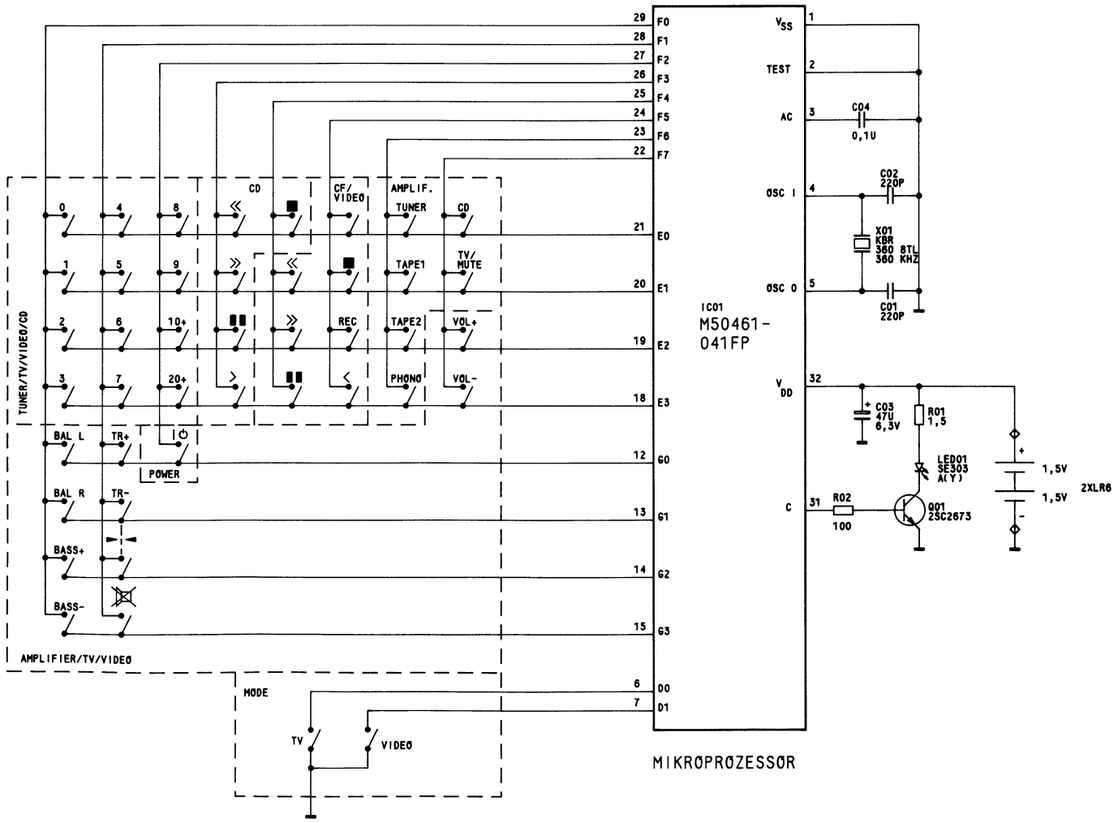
MODEL

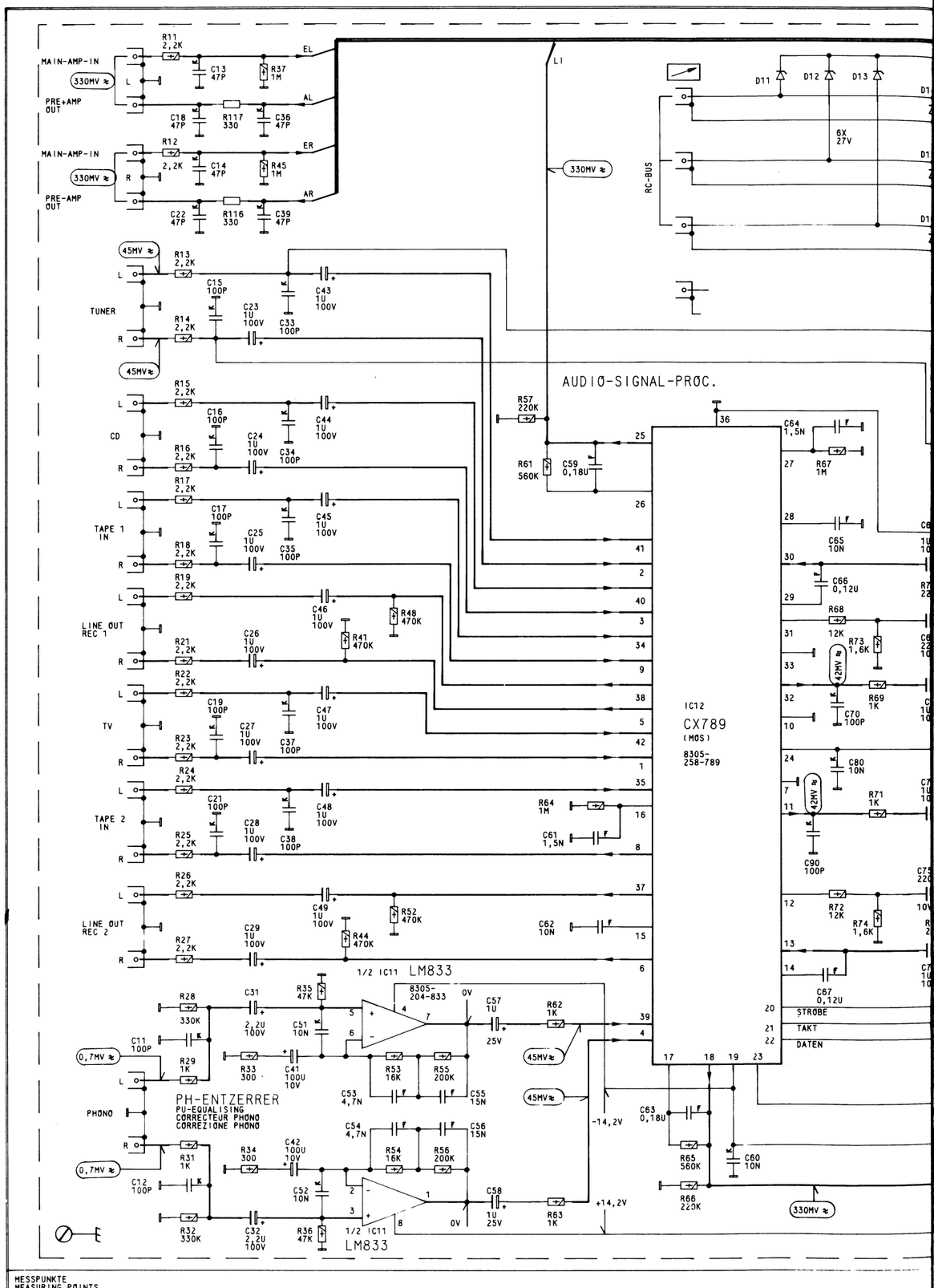
SERVICE MANUAL

LC-DISPLAY DP1
09623-400.00



59800-709.01





AUDIO-SIGNAL-PROC.

ØPTØKØPPLER
OPTO-COUPLER
OPTOCOUPLEUR
OPTOACCOPPIATORE

STUMMSCHALTUNG
MUTING
COMMUTATION SILENCIEUSE
COMMUTAZIONE SILENZIOSA

KLANGREGLUNG
TONE CONTROL
REGLAGE DE TONALITE
REG.DI TONALITA

IC12 CX789 (MOS) 8305-258-789

IC13 PC837 8306-000-837

1/2 IC14 LM833 8305-204-833

1/2 IC15 LM833 8305-204-833

1/2 IC11 LM833 8305-204-833

IR-VORVERST. 29304-015.56

IC1211 TDA4050B (4052B) 8305-334-052

TRAEGERUNTERDRUECKUNG
CARRIER SUPPRESSION
SUPPR.DE LA PARTEUSE
SOPPRE.DELLA PORTANTE

DATENLEITUNG RC-BUS
DATA LINE RC-BUS
CONDU.DE DONNEES RC-B
LINEA DATA RC-BUS

TASTENPLATTE 2
BUTTON BOARD 2
C.I.TOUCHES 2
PIASTRA TASTI 2
59352-285.94

BALANCE
VOLUME
BASS
TREBLE
TAPE 1→2
TAPE 2→1
STORE
MONO
DEFEAT
TEST
TR-
TR+
TUNER
CD
PHONO
TAPE 2
TAPE 1
TV
SOURCE
TONE IV
TONE III
TONE II
TONE I
SUBSONIC

LED EIN / AUS

RELAIS-ANSTEUERUNG
RELAISE DRIVER
EXITATION RELAIS
PILOTAGGIO RELE.

UP-PLATTE
UP-BOARD
C.I.UP
PIASTRA UP
59352-279.94

BUCHSENPLATTE
SOCKET BOARD
C.I.PRISE
PIASTRA PRESE
59352-281.94

REL1 EIN -49,8V AUS 0V
REL2 EIN -49,8V AUS 0V

REMOTE-CONTROL-AUSWERTUNG,POWER-METER,CODE UMSETZUNG,RC-BUS,TAKT,SOURCE ANZEIGE

REMOTE CONTR.EVALUATION,POWER METER,CODE CONVERSION,RC-BUS,CLOCK,SOURC INDIC.

IDENTIFIC.TELECOMM.,POWER METER,CONNERS,DE CODE,RC-BUS,CADENCE,INDIC.DE SOURCE
VALUTAZ,DI TELECOMMANDO,MISUR.DI POTENZA,CONVERS.DI CODICE,RC-BUS,CADENZA,INDIC.DI SORGENTE

IC1211 TDA4050B (4052B) 8305-334-052

IC201 COP420-SCX/N (MOS) 8305-255-421

IC203 COP L444 -RØL/N (MOS) 8305-255-444

IC204 SN74LS74N 8305-199-074 TEILER (TAKT 2:1) DIVIDER (CLOCK 2:1) DIVISEUR (CADENCE 2:1) PARTITORE (CADENZA 2:1)

IC205 NMC9306N (MOS) 8305-311-306 EEPROM NICHTFLUECHTIGER SPEICHER NON-VOLATILE MEMORY MEMOIRE NON-VOLATILE MEMORIA NON VOLATILE

IC202 4098B (MOS) 8305-201-499 8 BIT ADRESSIERBARES LATCH 8 BIT ADDRESS. LATCH LATCH ADRESS. 8BIT LATCH INDIR. A 8 BIT

TRAEGERUNTERDRUECKUNG CARRIER SUPPRESSION SUPPR.DE LA PARTEUSE SOPPRE.DELLA PORTANTE

DATENLEITUNG RC-BUS DATA LINE RC-BUS CONDU.DE DONNEES RC-BUS LINEA DATA RC-BUS

ZUR SOURCE-ANZEIGE TO SOURCE INDIC. POUR INDIC.DE SOURCE PER INDIC.DI SORGENTE

ZUM POWER-METER TO POWER METER POUR COMPTEUR DE PUISS. PER MISURATORE DI POTENZA

HAUPT-MIKROPROZESSOR MAIN-MICROPROCESSOR MICROPROCESSEUR PRINZIPAL MICROPROCESSORE PRINZIPALE

FREIGABE LCD-TREIBER ENABLE LC DRIVER LIBERATION DRIVER IC CONDENSO PILOTA LC

FREIGABE TAKT/DATEN FUER IC12 ENABLE CLOCK/DATA FOR IC12 LIBERATION ADENCE/ DONNEES POUR IC12 CONDENSO CADENZA/ DATI PER IC12

TASTENPLATTE 1 BUTTON BOARD 1 C.I.TOUCHES 1 PIASTRA TASTI 1 59352-278.94

RELAIS-ANSTEUERUNG RELAISE DRIVER EXITATION RELAIS PILOTAGGIO RELE.

UP-PLATTE UP-BOARD C.I.UP PIASTRA UP 59352-279.94

NETZAUSFALL-ERKENNUNG MAINS FAILURE INDENTIFICATION

IDENTIFICATION PANNE DE SECTEUR IDENTIFICAZIONE CADUTA DI RETE

BELEUCHTUNGS-ABSCH. ILL.SWITCH OFF INTER.ECLAIRAGE SPEGNIMENTO ILLUM.

DISPLAY DUNKEL DISPLAY DARK AFFICHEUR ETEINT DISPLAY OSCURATO

NETZAUSSF. ERKENNUNG

TUNER STUMM TUNER MUTING TUNER SILENC. TUNER SILENZ.

REL2 EIN -49,8V AUS 0V

D1 +5V E1

(H)
DISPLAYPLATTE
DISPL.BOARD
C.I.DISPL.
PIASTRA DISPL.
59352-295.94

DP1
LC-ANZEIGE
09623-400.00
COM 1

1H
LC1
LC7582 (MOS)
8305-262-582
CE
CLOCK
DATEN
INH
64
1
53
60
61
62
57
58
56
59
55
3,9V
0,1V BEI STANDBY
C1 0,1U
R3 51K
C2 680P
5V

LCD-TREIBER / DECODER
LCD-DRIVER / DECODER
LCD-DRIVER / DECODEUR
LCD-PILOTA / DECODER

330MV ≈
R107 1M
C89 2,2U 40V
AL
LI
C83 2,2U 100V
R96 220K
R94 2,2K
R114 1K
1/2 IC14
LM833
8305-204-833
IMPEDANZ-WANDLER
0V

TRENNSTUFE
SEPARATING STAGE
ETAGE DE SEPARATION
STADI DI
SEPARAZIONE

1/2 IC15
LM833
R99 220K
C84 2,2U 100V
R95 2,2K
R115 1K
RE
AR
R108 1M
C88 2,2U 100V

C85 220U 16V
R103 56
T18 BC637
R109 470 1W
R101 56
T16 BC637
D18 1N4151
D19 16V
R111 3,9K
D23 2,7V
+14,2V
-14,2V
C86 220U 16V
R104 56
T19 BC 638
R112 470 1W
R102 56
T17 BC638
D21 1N4151
D22 16V
R113 3,9K
D24 2,7V
-50V
50V

STAB.NETZTEIL
MAINS UNIT
BLOC SECTEUR STAB.
ALIM. STAB.

BUCHSENPLATTE
SOCKET BOARD
C.I.PRISE
PIASTRA PRESE
59352-281.94
(D)
3D2 3D3 3D1
+14,2V -14,2V S -50V 6 50V 7

(L)
NETZTEILPLATTE
MAINS UNIT.BOARD
C.I.BLOC SECTEUR
PIASTRA ALIMENTAT
59352-707.94

IC 402
KOMPARATOREN
FUER/POWER-
METER.
COMPARATORS FOR
POWER METER.
COMPARATEURS POUR
COMPTEUR DE PUISS.
COMPARATORI PER
POTENZA
MISURATORE DI

T411,T412
D411,D423
SPITZENWERT
GLEICHRICHTER
PEAK VALUE
RECTIFIER
REDRESSEUR VALEUR
DE CRETE
RADDIZZATORE
VALORE DI PICCO

NETZAUSFALLERKENNUNG
MAINS FAILURE IDENTIFICATION
IDENTIFICATION PANNE DE SECTEUR
IDENTIFICAZIONE CADUTA DI RETE

RESET-AUFBEREITUNG
RESET PROCESSING
ELABORATION RESET
ELABORAZIONE RIPRISTINO

STAB. NETZTEIL
STAB. MAINS UNIT
STAB. BLOC SECT.
ALIM. STAB.

C415 100P
2 X BAT42
D418 D422
R442 5,6K
R433 12K
R439 15K
C423 4,7U 63V
R429 470K
D419 2 X 1N4151
D421
R440 15K
R443 5,6K
C424 4,7U 63V
R438 12K
R441 470K
8V ≈
1/4 IC402
LM339N
8305-204-339
C419 100P
C426 10N
R435 18K
R431 4,7K
D411 1N 4151
C418 10U 25V
R437 4,7K
R444 18K
D423 1N 4151
C425 10U 25V
R432 220
T411 BC546B
R436 220
T412 BC546B
34V
1L
18A
18
19
19A
5
5A
EL

E2
S
C408 33N 63V
R430 18K 2%
R419 470K 2%
T408 BC558B
R426 82K
C416 0,1U
R424 220K
1/4 IC402
LM339N
2L
60
62
3
20
2
34V
8

C403 10U 25V
12V
R408 1,5K
D407 1N4151
C414 0,1U
C417 100U 25V
4X1N4001
S14 T800MA
C404 3300U 16V
C406 3300U 16V
D409 1N4001
D413 D415 D414 D416
C421 0,33U
C422 0,33U
13,3V~
15,3V
R427 47K
D401 4,3V
R413 2,2K
D402 4,7V
D404 1N4151
R401 1,5K
T401 BC 548B
R414 68
C407 10N
R428 1,5K
T407 BD826-10
T409 BC328-25
C412 2,2U 100V
R434 430
D412 D417
2 X 1N4151
R402 10K
T402 BC 548B
R415 680
4,7V
R403 5,1K/2%
8,1V
R416 5,6K 2%
C410 100U 10V
D410 1N4001
D403 1N4151
C405 0,22U 50V
R410 390K
3,4V
T403 BC 548B
R417 47K
R422 20K
R404 47K
3,3V
T404 BC548B
R423 220K
R421 3,6K
5V
R400 150K
R409 47K
T405 BC558B
T400 BC548B
2L
RESET
63 24 31 R 5V 11 10 30

1L
2G
D453 D452 D451
3 X GL-9 HD23
(G)
NETZSCHALTERPLATTE
MAINS SWITCH BOARD
C.I.INTERRUPTEUR
PIASTRA INTERRUTORE DI RETE
59352-283.94
R420 220 1W
1M
LA1 12V 3W
D424 1N 4001
3L
(E)
LAMPENPLATTE
LAMP BOARD
C.I.LAMPE
PIASTRA LAMPADINA
59352-284.94

ENDSTUFE/ FINAL STAGE/ET
4C
C501 2,2U 50V
R505 1K
C509 470P -0,1V
330MV ≈
C500 4,7N
46,7V
C511 330P -0,7V
C512 330P -0,1V
R503 56K
C505 330P
IC501
STK4040X
8305-574-040
R501 2,4K
C503 100U 10V
T501 BC546B
R507 10K
R514 1K
L
-47,9V
-47,6V
UEBERLAST-
SCHUTZ
OVERLOAD PROTECTION
PROTECTION CONTRE SURCHARGE
PROTEZIONE CONTRO
SOVRACCARICHI
R509 10K
C513 0,1U
D501 1N4151
T502 BC556B
R517 22K
T505 BC546B
R515 470K
-46,7V
R518 100
R521 470K
C519 220U 63V
R
IC502
STK4040X
8305-574-040
R507 2,4K
C504 100U 10V
C514 330P -0,1V
R504 56K
C506 330P
C515 330P -0,7V
C502 2,2U 50V
R506 1K
C516 470P -0,1V
C510 4,7N
46,7V
10C
6 -50V
S
+50V
7
9C
15V IR
LS1
LS2
34V
C507 220U 16V
T503 BD825/10
29,5V
R516 270 3W
15V
D524 1N4151
C508 10U 50V
D502 16V
R512 3,9K
C518 47U 50V
C522 0,33U
C523 0,33U
T506 BC639
C520 1U 100V
R513 6,8K
C517 0,1U
D503 6,2V
T504 BC 556B
R508 27K
27,2V
R510 68
(C)
NF-PLATTE
AF-BOARD
C.I. BF
PIASTRA BF
59352-274.94

MESSPUNKTE
MEASURING POINTS
E2 5V E D B F

ABGLEICHPUNKTE
ALIGNMENT POINTS

ENDSTUFE/ FINAL STAGE/ETAGE FINAL/STADIO FINALE

IC501 STK4040X 8305-574-040

IC502 STK4040X 8305-574-040

L

R

UEBERLASTSCHUTZ
OVERLOAD PROTECTION
PROTECTION CONTRE SURCHARGE
PROTEZIONE CONTRO SOVRACCARICHI

UEBERLAST-SCHUTZ

LS-SCHUTZSCH.
LS-PROTECTION CIRCUIT
CIRCUIT DE PROTECTION HP
CIRCUIT DI PROTEZIONE ALTOPAL.

NETZTEIL
MAINS UNIT
C.I. SECTEUR
ALIMENTATORE

4 X MR752 (P600 D)

TR1 09034-002.01

09623-393.00

NF-PLATTE
AF-BOARD
C.I. BF
PIASTRA BF
59352-274.94

TRAFOPLATTE/TRANSF.BOARD
C.I.TRANS./ PIASTRA TRANS.
59352-706.94

NETZSCHALTERPLATTE
MAINS SWITCH BOARD
C.I.INTERRUPTEUR SECT.
PIASTRA INTER.DI RETE
59352-283.94

NETZBUCHSENPLATTE
MAINS SOCKET BOARD
C.I.PRISE SECTEUR
PIASTRA PRESE DI RETE
59352-282.94

AC-OUTLET
SORTIE C.A.
PRESE DI C.A.

KH-BUCHSENPLATTE
HEADPHONE SOCKET BOARD
C.I.EMBASE CASQUE
PIASTRA PRESA CUFFIA
59352-286.94

L - LINKER KANAL
LEFT CHANNEL
CANAL DE GAUCHE
CANALE SINISTRO

R - RECHTER KANAL
RIGHT CHANNEL
CANAL DE DROITE
CANALE DESTRO

LS-KLEMMENPLATTE
LS TERMINAL BOARD
C.I.CONNEXIONS HP
PIASTRA MORSETTI ALTOPARLANTI
59352-275.94

AM KUEHLKOERPER
AT COOLING PLATE
AU TOLE DE REFROIDISSEMENT
AL DISSIPATORE TERMICO

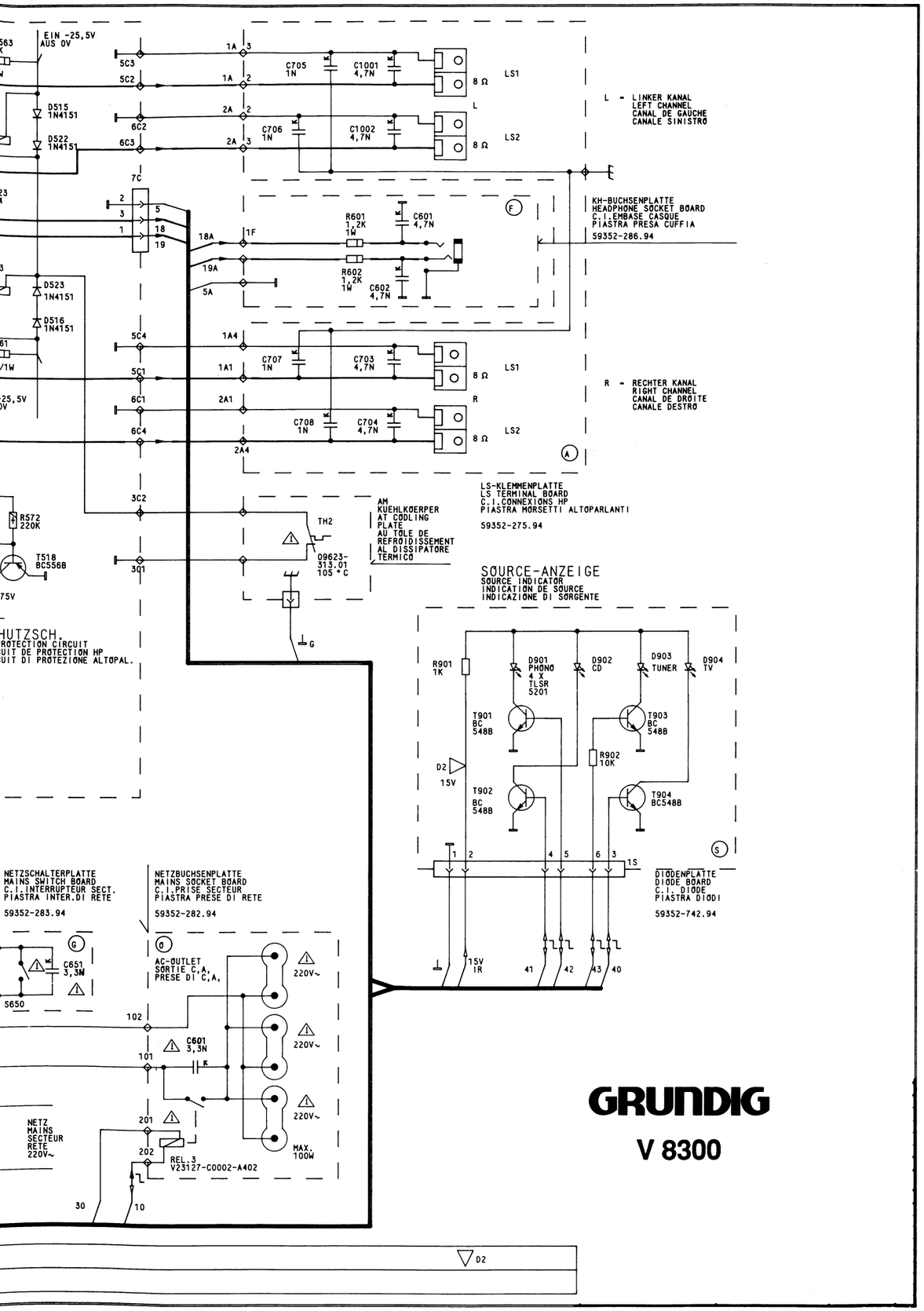
SOURCE-ANZEIGE
SOURCE INDICATOR
INDICATION DE SOURCE
INDICAZIONE DI SORGENTE

DIODENPLATTE
DIODE BOARD
C.I. DIODE
PIASTRA DIODI
59352-742.94

REL.1 FBR 323 D024
REL.2 FBR323 D024
2 X FBR323 D0024
REL.3 V23127-C0002-A402

09623-313.01 105 °C
TH1 110 °C

GRUNDIG
V 8300



GRUNDIG

V 8300

AENDERUNGEN VORBEHALTEN
SUBJECT TO ALTERATION
MODIFICATIONS RESERVEES
CON RISERVA DI MODIFICA

⚠ FUER DIE GERAETESICHERHEIT ABSOLUT NOTWENDIG UND ENTSPRECHEND DEN RICHTLINIEN DES VDE BZW. IEC. IM ERSATZFALL DUERFEN NUR BAUTEILE MIT GLEICHER SPEZIFIKATION VERWENDET WERDEN.

⚠ ABSOLUTELY NECESSARY FOR THE SAFETY OF THE SET. THESE COMPONENTS MEET THE SAFETY REQUIREMENTS ACCORDING TO VDE OR IEC. RESP. AND MUST BE REPLACED BY PARTS OF SAME SPECIFICATION ONLY.

⚠ ABSOLUMENT NECESSAIRE POUR LA SECURITE DE L'APPAREIL ET CONFORME AUX REGULATIONS VDE ET IEC. EN CAS DE REPLACEMENT. N'UTILISER QUE DES COMPOSANTS AVEC LES MEMES SPECIFICATIONS.

⚠ NECESSARI PER LA SICUREZZA DELL' APPARECCHIO E SONO CONFORMI ALLE NORMI DI SICUREZZA VDE E IEC. IN CASA DI SOSTITUZIONE IMPIEGARE QUINDI SOLTANTO PEZZI IN RICAMBIO ORIGINALI.

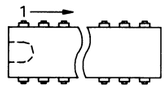
KØNDENSATOR/CAPACITOR
CONDENSATEUR/CONDENSATORE

- ELKØ, ELECTROLYTIC, ELECTROLYTIQUE, ELETTROLITICO
- TANTAL ELKØ, TANTALUM ELECTROLYTIC, ELECTROLYTIQUE AU TANTALE, ELETTROLITICO AL TANTALIO
- FOLIE, FOIL, A FEUILLE, A FOGLIA
- KERAMIK, CERAMIC, CERAMIQUE, A CERAMICA
- GLIMMER, MICA, AU MICA, A MICA
- VIELSCHICHT, MULTILAYER, A COUCHES MULTIPLES, A PIU' STRATI
- POLYPROPYLEN (KS-KP)

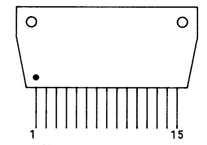
WIDERSTAND/RESISTOR
RESISTANCE/RESISTENZA

- KSW 0204 DIN
- MSW 0204 DIN
- KSW 0207 DIN
- MSW 0207 DIN
- KSW 0309 DIN, KSW 0411 DIN
- KSW 0617 DIN
- MSW 0309 DIN
- NTC
- DRAHT, WIRE, BOBINEE, A FILO
- METALLOXYDSCHICHT, METAL OXIDE, A OXYDE METALLIQUE, AD OSSIDO METALLICO
- RAUSCHARM, LOW NOISE, A SOUFFLE REDUIT, A BASSO RUMORE
- SCHWER ENTFLAMMBAR, LOW FLAMMABILITY, PEU INFLAMMABLE, A BASSA INFLAMMABILITA
- SICHERUNGSWIDERSTAND, SAFETY RESISTOR, FUSIBLE, DI SICUREZZA

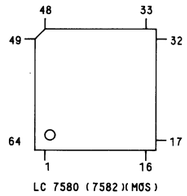
- GLEICHSPANNUNG, DC-VOLTAGE, TENSION CONTINUE, TENSION CONTINUA
- WECHSELSPANNUNG, AC-VOLTAGE, TENSION ALTERNATIVE, TENSIONE ALTERNATA
- REGELSPANNUNG, CONTROL VOLTAGE, TENSION DE REGLAGE, TENSIONE DI CONTROLLO
- ABSTIMMSPANNUNG, TUNING VOLTAGE, TENSION DE SYNTONISATION, TENSIONE DI SINTONIA
- SCHALTSPANNUNG, SWITCHING VOLTAGE, TENSION DE COMMUTATION, TENSIONE DI COMMUTAZIONE



4099 B (MOS)
SN74 LS 74N
NMC 9306N (MOS)
COP 420 ROM/N (MOR)
COP 444 ROL/N (MOS)
CX 789 (MOS)
LM 339 N
LM 833



STK 4040 X

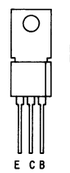


LC 7580 (7582)(MOS)

ACHTUNG!
VORSCHRIFTEN BEIM UMGANG MIT MOS-BAUTEILEN BEACHTEN!
ATTENTION!
OBSERVE MOS COMPONENTS HANDLING INSTRUCTIONS WHEN SERVICING!
ATTENTION!
LORS DE LA MANIPULATION DES CIRCUITS MOS, RESPECTER LES PRESCRIPTIONS MOS!
ATTENZIONE!
OSSERVARE LE RELATIVE PRESCRIZIONI DURANTE LAVORI CON COMPONENTI MOS!

BC328
BC546, BC548
BC556, BC558

BC637
BC639
BC640



BD825
BD826

SPANNUNGEN MIT VOLTMETER (RI=10MΩ), FALLS NICHT ANDERS ANGEGEBEN, GEGEN MASSE GEMESSEN. MESSWERTE GELTEN BEI 220V~ NETZSPANNUNG.

IF NOT OTHERWISE INDICATED ALL VOLTAGES ARE MEASURED AGAINST CHASSIS WITH A VOLTMETER (RI=10MΩ). THE VALUES ARE VALID FOR 220V AC MAINS VOLTAGES.

SAUF INDICATION CONTRAIRE, LES TENSIONS SONT MESUREES PAR RAPPORT AU CHASSIS AVEC UN VOLTMETRE (RI=10MΩ) LES VALEURS SONT VALABLES POUR UNE TENSION SECTEUR DE 220V~ CA.

TENSIONI MISURATE CON VOLTMETRO (RI=10MΩ), SALVE ALTRE INDICATIONI, RIFERITE A MASSA. I VALORI DI MISURA VALGONO CON TENSIONE DI RETE DI 220V~.

NF-SPANNUNGEN BEI 2X8W AN 8 Ω ~8V~ AM AUSGANG, 1KHZ, LAUTST. VOLL AUF, DEFEAT EIN, BALANCE MITTE, SUBSONIC UND HIGHCUT AUS, LAUTSPRECHERRELAIS EIN.

AF VOLTAGES 2X8W INTO 8 Ω ~8V~ AM OUTPUT 1KHZ, VOLUME FULLY UP, DEFEAT ON, BALANCE IN CENTRE SETTING, SUBSONIC AND HIGHCUT OFF, LOUDSPEAKER SWITCHES ON.

TENSIONS BF POUR 2X8W SUR 8 Ω ~8V~ A LA SORTIE, 1KHZ, VOLUME AU MAXIMUM, DEFEAT EN SERVICE, REGLAGES DE BALANCE EN POSITION MEDIANE, SUBSONIC ET HIGHCUT HORS SERVICE, COMMUTATEUR HAUT-PARLEURS EN SERVICE.

TENSIONI BF ALL' USCITA CON 2X8W E 8 Ω ~8V~ 1KHZ, VOLUME AL MASSIMO, DEFEAT INSERITI, BILANCIAMENTO AL CENTRO, SUBSONIC E HIGHCUT DISINSERITO, COMMUTATORI DEGLI ALTOPARLANT, INSERITI.

GRUNDIG

Ⓓ Btx * 32700 #

V 8300

Service Manual V 8300 Sach - Nr. 72010 - 701.80
Service manual V 8300 Order - No. 72010 - 701.80

Änderungen vorbehalten
Alterations reserved

Printed in Germany

72010 - 702.20